



Installation Guide



RGB 460χi/472χi FSR Series and AAP 102 FSR Installation Guide

FSR Floor box-Mounted Interface



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Precautions

Safety Instructions • English



This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.



This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of

Caution

- Read Instructions Read and understand all safety and operating instructions before using the equipment.
- Retain Instructions The safety instructions should be kept for future
- Follow Warnings . Follow all warnings and instructions marked on the equipment or in the user information
- Avoid Attachments Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be

Consignes de Sécurité • Français



Ce symbole sert à avertir l'utilisateur que la documentation fournie avec le matériel contient des instructions importantes concernant l'exploitation et la maintenance (réparation).



Ce symbole sert à avertir l'utilisateur de la présence dans le boîtier de l'appareil de tensions dangereuses non isolées posant des risques d'électrocution.

Attention

- Lire les instructions Prendre connaissance de toutes les consignes de sécurité et d'exploitation avant d'utiliser le matériel.
- Conserver les instructions Ranger les consignes de sécurité afin de pouvoir les consulter à l'avenir
- Respecter les avertissements Observer tous les avertissements et onsignes marqués sur le matériel ou présentés dans la documentation
- Eviter les pièces de fixation Ne pas utiliser de pièces de fixation ni d'outils non recommandés par le fabricant du matériel car cela risquerait de poser certains dangers.

Sicherheitsanleitungen • Deutsch



Dieses Symbol soll dem Benutzer in der im Lieferumfang enthaltenen Dokumentation besonders wichtige Hinweise zur Bedienung und Wartung (Instandhaltung) geben.



Dieses Symbol soll den Benutzer darauf aufmerksam machen, daß im Inneren des Gehäuses dieses Produktes gefährliche Spannungen, die nicht isoliert sind und die einen elektrischen Schock verursachen können, herrschen.

Achtung

- Lesen der Anleitungen Bevor Sie das Gerät zum ersten Mal verwenden, sollten Sie alle Sicherheits-und Bedienungsanleitungen genau durchlesen und verstehen.
- Aufbewahren der Anleitungen Die Hinweise zur elektrischen Sicherheit des Produktes sollten Sie aufbewahren, damit Sie im Bedarfsfall darauf zurückgreifen können.
- Befolgen der Warnhinweise Befolgen Sie alle Warnhinweise und Anleitungen auf dem Gerät oder in der Benutzerdokumentation.
- Keine Zusatzgeräte Verwenden Sie keine Werkzeuge oder Zusatzgeräte cht ausdrücklich vom Hersteller empfohlen wurden, da diese eine

Instrucciones de seguridad • Español



Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (o cambio de partes) que se desean destacar en el contenido de la documentación suministrada con los equipos.



Este símbolo se utiliza para advertir al usuario sobre la presencia de elementos con voltaje peligroso sin protección aislante, que puedan encontrarse dentro de la caja o alojamiento del producto, y que puedan representar riesgo de electrocución.

Precaucion

- Leer las instrucciones Leer v analizar todas las instrucciones de operación y seguridad, antes de usar el equipo.
- Conservar las instrucciones . Conservar las instrucciones de seguridad
- Obedecer las advertencias Todas las advertencias e instruccione marcadas en el equipo o en la documentación del usuario, deben ser obedecidas.
- sean especificamente recomendados por el fabricante, ya que podriar implicar riesgos.

Warning

- Power sources . This equipment should be operated only from the power source indicated on the product. This equipment is intended to be used with a main power system with a grounded (neutral) conductor. The third (grounding) pin is a safety feature, do not attempt to bypass or disable it.
- Power disconnection To remove power from the equipment safely, remove all power cords from the rear of the equipment, or the desktop power module (if detachable), or from the power source receptacle (wall plug).
- Power cord protection Power cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them.
- Servicing * Refer all servicing to qualified service personnel. There are no user-serviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards.
- Slots and openings If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects.
- Lithium battery There is a danger of explosion if battery is incorrectly replaced. Replace it only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's

Avertissement

- Alimentations Ne faire fonctionner ce matériel qu'avec la source d'alimentation indiquée sur l'appareil. Ce matériel doit être utilisé avec une alimentation principale comportant un fil de terre (neutre). Le troisième contact (de mise à la terre) constitue un dispositif de sécurité : n'essayez pas de la contourner ni de la
- Déconnexion de l'alimentation Pour mettre le matériel hors tension sans danger, déconnectez tous les cordons d'alimentation de l'arrière de l'appareil ou du module d'alimentation de bureau (s'il est amovible) ou encore de la prise secteur
- Protection du cordon d'alimentation Acheminer les cordons d'alimentation de manière à ce que personne ne risque de marcher dessus et à ce qu'ils ne soient pas écrasés ou pincés par des objets.
- Réparation-maintenance Faire exécuter toutes les interventions de réparation-maintenance par un technicien qualifié. Aucun des éléments internes ne peut être réparé par l'utilisateur. Afin d'éviter tout danger d'électrocution, l'utilisateur ne doit pas essaver de procéder lui-même à ces opérations car l'ouverture ou le retrait des couvercles risquent de l'exposer à de hautes tensions et autres dangers
- Fentes et orifices * Si le boîtier de l'appareil comporte des fentes ou des orifices, ceux-ci servent à empêcher les composants internes sensibles de surchauffer. Ces ouvertures ne doivent jamais être bloquées par des objets.
- Lithium Batterie Il a danger d'explosion s'll y a remplacment incorrect de la batterie. Remplacer uniquement avec une batterie du meme type ou d'un ype equivalent recommande par le constructeur. Mettre au reut les batteries usagees conformement aux instructions du fabricant.

Vorsicht

- Stromquellen Dieses Gerät sollte nur über die auf dem Produkt angegebene Stromquelle betrieben werden. Dieses Gerät wurde für eine Verwendung mit einer Hauptstromleitung mit einem geerdeten (neutralen) Leiter konzipiert. Der dritte Kontakt ist für einen Erdanschluß, und stellt eine Sicherheitsfunktion dar. Diese sollte nicht umgangen oder außer Betrieb gesetzt werden.
- Stromunterbrechung Um das Gerät auf sichere Weise vom Netz zu trennen, sollten Sie alle Netzkabel aus der Rückseite des Gerätes, aus der externen Stomversorgung (falls dies möglich ist) oder aus der Wandsteckdose ziehen
- Schutz des Netzkabels Netzkabel sollten stets so verlegt werden, daß sie nicht im Weg liegen und niemand darauf treten kann oder Objekte darauf- oder unmittelbar dagegengestellt werden können.
- Wartung Alle Wartungsmaßnahmen sollten nur von qualifiziertem Anterwarfungspraisstatismiers somein im von quantiziertein Servicepersonal durchgeführt werden. Die internen Komponenten des Gerätes sind wartungsfrei. Zur Vermeidung eines elektrischen Schocks versuchen Sie in keinem Fall, dieses Gerät selbst öffnen, da beim Entfernen der Abdeckungen die Gefahr eines elektrischen Schlags und/oder andere Gefahren bestehen.
- Schlitze und Öffnungen Wenn das Gerät Schlitze oder Löcher im Gehäus aufweist, dienen diese zur Vermeidung einer Überhitzung der empfindlichen Teile im Inneren. Diese Öffnungen dürfen niemals von anderen Objekten
- Litium-Batterie Explosionsgefahr, falls die Batterie nicht richtig ersetzt wird. Ersetzen Sie verbrauchte Batterien nur durch den gleichen oder einen vergleichbaren Batterietyp, der auch vom Hersteller empfohlen wird. Entsorgen Sie verbrauchte Batterien bitte gemäß den Herstelleranweisungen.

- Alimentación eléctrica Este equipo debe conectarse únicamente a la fuente/tipo de alimentación eléctrica indicada en el mismo. La alimentación eléctrica de este equipo debe provenir de un sistema de distribución general con conductor neutro a tierra. La tercera pata (puesta a tierra) es una medida de seguridad, no puentearia ni eliminaria:
- Desconexión de alimentación eléctrica Para desconectar con seguridad la acometida de alimentación eléctrica al equipo, desenchufar todos los cables de alimentación en el panel trasero del equipo, o desenchufar el módulo de alimentación (si fuera independiente), o desenchufar el cable del receptáculo de
- Protección del cables de alimentación Los cables de alimentación eléctrica deben instalar en lugares donde no sean pisados ni apretados por objetos que se puedan apoyar sobre ellos.
- Reparaciones/mantenimiento Solicitar siempre los servicios técnicos de personal calificado. En el interior no hay partes a las que el usuario deba acceder. Para evitar riesgo de electrocución, no intentar personalmente la reparación/mantenimiento de este equipo, ya que al abrir o extraer las tapas puede quedar expuesto a voltajes peligrosos u otros riesgos.
- Ranuras y aberturas Si el equipo posee ranuras o orificios en su caja/alojamiento, es para evitar el sobrecalientamiento de componentes internos sensibles. Estas aberturas nunca se deben obstruir con otros objetos.
- Batería de litio Existe riesgo de explosión si esta batería se coloca en la posición incorrecta. Cambiar esta batería únicamente con el mismo tipo (o su equivalente) recomendado por el fabricante. Desachar las baterías usadas siguiendo las instrucciones del fabricante.

Extron's Warranty

Extron Electronics warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron Electronics will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

USA, Canada, South America, and Central America:

Extron Electronics 1230 South Lewis Street Anaheim, CA 92805, USA

Europe, Africa, and the Middle East: Extron Electronics, Europe

Beeldschermweg 6C 3821 AH Amersfoort The Netherlands

Asia:

Extron Electronics, Asia 135 Joo Seng Road, #04-01 PM Industrial Bldg. Singapore 368363

Japan:

Extron Electronics, Japan Daisan DMJ Bldg. 6F, 3-9-1 Kudan Minami Chiyoda-ku, Tokyo 102-0074 Japan

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions or non-Extron authorized modification to the product.

If it has been determined that the product is defective, please call Extron and ask for an Applications Engineer at (714) 491-1500 (USA), 31.33.453.4040 (Europe), 65.6383.4400 (Asia), or 81.3.3511.7655 (Japan) to receive an RA# (Return Authorization number). This will begin the repair process as quickly as possible.

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.

Table of Contents

Nout this Guide		
nstallation Overview	. '	
Installation Instructions	. 2	
Preparing the site and cables	. 2	
Mounting the interface or adapter plate to the floorbox		
Specifications	. 4	
Included Parts		
Accessories	. 5	
Cables	. 6	
Male-to-male VGA cables	. 6	
Male-to-male 90° VGA cables	. 6	
Adapter kits	. 6	
High resolution cables	. 6	
right resolution cables	. (

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About this Guide

This guide contains instructions for mounting two different Extron computer interfaces and an adapter plate into FSR® floor boxes. The interfaces are standard RGB 460½ series and RGB 472½ series interfaces tailored to fit the FSR floor box.

The AAP 102 FSR adapter plate is a blank faceplate for the FSR floor box, to which any standard Extron AAP (Architectural Adapter Plate) can be mounted.

In this guide, the terms "FSR interface" and "Interface" are used interchangeably.

For information about operating and wiring the interface, refer to the *RGB 400xi Series User Manual*, Part #68-542-01, or the *RGB 470xi Series User's Manual*, Part #68-661-01, depending on the specific product you are using.

Installation Overview

CAUTION

Installation and service must be performed by authorized personnel only. These products must be used with UL approved electrical boxes.

Install the interface or adapter plate as follows:

- Turn all of the equipment off. Make sure that the computer, the interface, and the output devices (projector/monitor, speakers) are all turned off and disconnected from the power source.
- 2 Select the installation location and install the electrical floor box. Refer to the documentation that was included with the floor box.
- Route the cables that connect to the rear of the interface (or the AAP(s) to be installed in the AAP 102 FSR adapter plate).
- Set the gain and DIP switches (or the switch(es) on the rear of the AAP(s) to be installed in the AAP 102 FSR adapter plate). Refer to the RGB 400xi Series User Manual, Part #68-542-01, the RGB 470xi Series User Manual, Part #68-661-01.
- **5 For the AAP 102 FSR adapter plate only**, secure the AAP(s) to the front of the faceplate.
- Connect the video, audio, and power cables to the rear of the device. Refer to the RGB 400_AiSeries User Manual, Part #68-542-01, the RGB 470_AiSeries User Manual, Part #68-661-01.
- 7 Connect power cords and turn on the projector or monitor and audio device, the interface, and the computer.

Installation, cont'd

- The picture should now appear, and sound should be audible. If not, ensure that all devices are plugged in and receiving power. Check the cabling and switch settings, and make adjustments as needed.
- Disconnect power from all the devices.
- Mount the interface or adapter plate into the floor box. See Mounting the interface or adapter plate to the floor box in this manual.
- Restore power to the devices.

Installation Instructions

CAUTION The interface must be installed into an *Underwriters Laboratories (UL) approved FSR* electrical floor box. The floor box is not included with the interface; the installer is responsible for obtaining and installing the box.

Preparing the site and cables

Choose a location that allows cable runs without interference. Allow enough depth for both the floor box and the cables. You need to run the conduit (if required by local code) and cables under the floor before installing the interface.

The installation must conform to national and local electrical codes and to the interface's size requirements.

- Install the floor box in accordance with the documentation that accompanied the box.
- Feed cables through the floor box punch-out holes, and secure them with cable clamps to provide strain relief.
- Exposed cable shields (braids or foil) are potential sources of short circuits. Trim back and/or insulate shields with heat shrink, or ground the shield to the box (figure 1).

CAUTION To prevent short circuits, the outer foil shield can be cut back to the point where the cable exits the cable clamp. Both braided and foil shields should be connected to an equipment ground at the other end of the cable.

Set the gain and DIP switches and cable and test the device before securing it into the floor box. The switches and cables will be inaccessible after installation.

Refer to the RGB 400xi Series User Manual, Part #68-542-01 or the RGB 470xi Series User Manual, Part #68-661-01 for additional information.

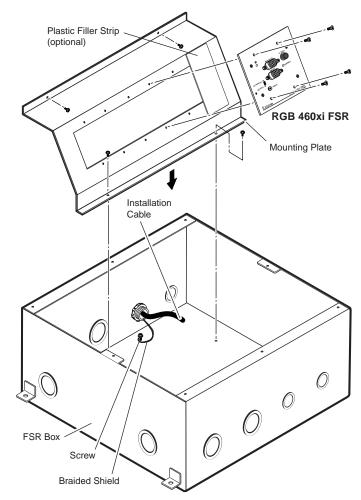


Figure 1 — Securing the RGB 460xi FSR adapter plate to the floor box and grounding the braided shield

Secure the interface or adapter plate to the floor box with the screws provided. See Mounting the interface or adapter plate below.

Mounting the interface or adapter plate to the floor box

- Disconnect the power supply to remove power from the interface.
- If installed, remove the floor box's top panel and trim frame.

Installation, cont'd

- 3. Place the interface or adapter plate through the opening in the floor and into the floor box. Take care not to damage the cables, which lay behind the interface in the bottom of the box.
- Mount the interface or adapter plate(s) to the floor box with the included machine screws.

Install the faceplate with four machine screws (included).

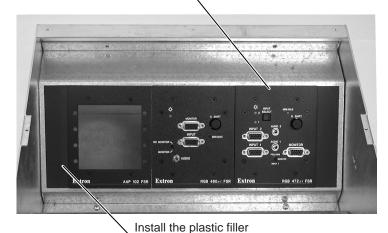


Figure 2 — AAP 102 FSR, RGB 460x;FSR, and RGB 472x;FSR installed

strips (optional).

- 5. If necessary, install a plastic filler strip (included with the interface or adapter plate) to fill the gap when the devices are installed in either end position (right or left).
- 6. Install the floor box's top panel and trim frame.
- 7. Reconnect the power supply.

Specifications

This guide shows power requirements and physical specifications only. For electrical and functional specifications, refer to the *RGB* 400 χ i Series User Manual, Part #68-542-01 or the *RGB* 470 χ i Series User's Manual, Part #68-661-01, depending on the specific product you are using.

General

Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non condensing
Rack mount	No, but FSR floor box mountable
Enclosure type	Metal
Enclosure dimensions	
RGB 460χi/472χi FSR	
Plate	4.5" H x 3.6" W (11.4 cm H x 9.1 cm W)
Back enclosure	2.7" H x 3.3" W x 1.1" D
	(6.9 cm H x 8.4 cm W x 2.8 cm D)
	(Depth excludes front panel connectors
	and controls.)
AAP 102 FSR	4.5" H x 3.6" W (11.4 cm H x 9.1 cm W)

NOTE *Specifications are subject to change without notice.*

Included Parts

These items are included in each order for the indicated interface:

Included parts	Part number
RGB 460χi FSR, black	60-373-40
RGB 472xi FSR, black	60-515-40
AAP 102 FSR	60-301-40
12VDC, 1.0A external power supply kit	70-055-01
RGB 400χi Series User's Manual	68-542-01
RGB 470χi Series User's Manual	68-661-01
Plastic filler strip	100-216-01
RGB 400χi FSR Series Installation Guide	

Accessories

Accessories	Part number
3.5 mm stereo plug	10-306-01
Mac/VGA adapter	26-340-01
Mac HV/VGA adapter	26-340-02
Mac 35/VGA 6' adapter	26-287-01
SY VGA/XGA adapter	26-173-01
SY 15 HDM RGBHVF	26-397-01

Installation, cont'd

Cables

Male-to-male VGA cables	Part number
VGA M6' MHR	26-238-01
VGA M3' MHRA (with audio)	26-490-01
VGA M6' MHRA (with audio)	26-490-02
VGA M12' MHRA (with audio)	26-490-03

Male-to-male 90° VGA cables	Part number
VGAM 90 MHRA 6' (with audio)	26-510-02

Adapter kits Pa	rt number
Mac 15-pin HD F adapter cable kit w/audio	70-156-01
13W3 15-pin HD F adapter cable kit w/audio	70-157-01

High-resolution cables	Part number
BNC-5-3'HR	26-260-15
BNC-5-6'HR	26-260-01
BNC-5-12'HR	26-260-02
BNC-5-25'HR	26-260-03
BNC-5-50'HR	26-260-04
BNC-5-75'HR	26-260-16
BNC-5-100'HR	26-260-05
BNC-5-3'HRP (plenum)	26-378-01
BNC-5-6'HRP (plenum)	26-378-02
BNC-5-12'HRP (plenum)	26-378-03
BNC-5-25'HRP (plenum)	26-378-04
BNC-5-50'HRP (plenum)	26-378-05
BNC-5-75'HRP (plenum)	26-378-06
BNC-5-100'HRP (plenum)	26-378-07
Bulk installation cable (14-conductor, non-plenum), 500' HR	22-120-02
Bulk installation cable (17-conductor, plenum), 500' HR	22-111-03